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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/589,703	03/19/2007	Noel N. De Keyzer	L0014/US	2221
Donna B. Holg	7590 10/29/200 uin	EXAMINER		
KRATON Poly	mers U.S.	SCOTT, ANGELA C		
Intellectual Property Asset Manager 3333 Highway 6 South, Rm. CA-110			ART UNIT	PAPER NUMBER
Houston, TX 77	7082	1796		
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			10/29/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary		Applica	tion No.	Applicant(s) DE KEYZER ET AL.				
		10/589,	703					
		Examin	er	Art Unit				
		Angela (C. Scott	1796				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply								
A SHO WHICH - Extensi after SI - If NO p - Failure Any rep	RTENED STATUTORY PERIOD F IEVER IS LONGER, FROM THE N ons of time may be available under the provisions X (6) MONTHS from the mailing date of this come eriod for reply is specified above, the maximum s to reply within the set or extended period for reply by received by the Office later than three months patent term adjustment. See 37 CFR 1.704(b).	MAILING DATE OF To sof 37 CFR 1.136(a). In no of the munication. It is that the period will apply and or will, by statute, cause the a	THIS COMMUNICATIO event, however, may a reply be ti will expire SIX (6) MONTHS fron pplication to become ABANDONI	N. mely filed n the mailing date of this c ED (35 U.S.C. § 133).				
Status								
2a)⊠ T 3)□ S	Responsive to communication(s) file this action is FINAL . Since this application is in condition losed in accordance with the pract	2b)⊡ This action is for allowance excep	ot for formal matters, pr		e merits is			
Dispositio	n of Claims							
5)□ (6)⊠ (7)□ (8)□ (Applicatio	Claim(s) <u>8-21</u> is/are pending in the algae of the above claim(s) is/acclaim(s) is/acclaim(s) is/are allowed. Claim(s) <u>8-21</u> is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restrict of the specification is objected to by the specification is objected to be specification.	are withdrawn from o						
10) T	he drawing(s) filed on is/are specification is objected to by the he drawing(s) filed on is/are splicant may not request that any objected the oath or declaration is objected to the specification is objected to by the specification is objected to be specification in the specification in the specification is objected to be specification in the specification in the specification is objected to by the specification is objected to be specification in the specification in the specification is objected to be specification in the specification in the specification is objected to be specification in the specification in the specification is objected to be specification in the specification in the specification is objected to be specification in the specification in the specification is objected to be specification in the specification in the specification in the specification is objected to be specification in the specificat	: a) ☐ accepted or lection to the drawing(s) g the correction is requ	be held in abeyance. Se lired if the drawing(s) is ob	e 37 CFR 1.85(a). pjected to. See 37 C	, ,			
Priority un	der 35 U.S.C. § 119							
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 								
2) Notice 3) Informa	of References Cited (PTO-892) of Draftsperson's Patent Drawing Review (I ation Disclosure Statement(s) (PTO/SB/08) No(s)/Mail Date	PTO-948)	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal D 6) Other:	ate				

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DETAILED ACTION

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Applicant's response of July 17, 2008 has been fully considered. Claims 8-21 are pending.

Claim Rejections - 35 USC § 103

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Claims 8-12 are rejected under 35 U.S.C. 103(a) as being unpatentable over De Keyzer et al. (WO 02/057386).

Regarding claims 8-12: De Keyzer et al. teaches an adhesive composition (pg. 1 line 2) comprising 100 parts by weight of a block copolymer (pg. 8 lines 4-6) having a structure represented by A-C-A wherein A represents a polymer block of an aromatic vinyl compound and C is a mixed polymer block of butadiene and isoprene (page 4 lines 9-15) in a weight ratio of 1:1 (3a on table on page 15), which falls within the claimed range. The aromatic vinyl compound is preferably styrene (pg. 4 lines 20-25). The coupling efficiency is from 81-87 % (pg. 19 table 2). The composition additionally comprises from 100-300 parts by weight (pg. 8 lines 28-3) of a hydrocarbon tackifying resin (pg. 8 line 9), specifically 250 parts (pg. 28 table 9), from 5 to 150 pars by weight of a plasticizer (pg. 9 lines 16-20), and from 1 to 3 parts by weight (tables 9-12) of one or more auxiliaries such as antioxidants and other stabilizing ingredients (pg. 9 lines 29-32). Further taught is the vinyl content in butadiene is 8 weight percent ant the vinyl content in isoprene is 5 weight percent (pg. 19 table 2) and the polystyrene content is 30 wt% (pg. 19 table 2 "F").

The block copolymers according to the present invention each preferably have a weight average molecular weight ranging from 100,000 to 500,000 (pg. 5 lines 7-8). Not disclosed is the molecular weight of 124,000-145,000. However, the experimental modification of this prior art in order to ascertain optimum operating conditions fails to render applicants' claims patentable in the absence of unexpected results. See *In re Aller*, 105 USPQ 233 and MPEP 2144.05. At the time of the invention a person having ordinary skill in the art would have found it obvious to optimize the molecular weight of the copolymer and would have been motivated to

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do so for such desirable properties as a cured product with sufficient flexibility and adhesiveness. A prima facie case of obviousness may be rebutted, however, where the results of the optimizing variable, which is known to be result-effective, are unexpectedly good. See *In re Boesch and Slaney*, 205 USPQ 215.

Claims 13-18 are rejected under 35 U.S.C. 103(a) as being unpatentable over De Keyzer et al. (WO 02/057386).

Regarding claims 13-18: De Keyzer et al. teaches disposable soft goods, such as diapers, feminine care articles and surgical drapes (pg. 1 lines 10-14), which have a non-woven element (disposable diapers have these) and they are assembled using a hot melt adhesive composition (pg. 1 lines 10-14). The adhesive composition comprises 100 parts by weight of a block copolymer (pg. 8 lines 4-6) having a structure represented by A-C-A wherein A represents a polymer block of an aromatic vinyl compound and C is a mixed polymer block of butadiene and isoprene (page 4 lines 9-15) in a weight ratio of 1:1 (3a on table on page 15), which falls within the claimed range. The aromatic vinyl compound is preferably styrene (pg. 4 lines 20-25). The coupling efficiency is from 81-87 % (pg. 19 table 2). The composition additionally comprises from 100-300 parts by weight (pg. 8 lines 28-3) of a hydrocarbon tackifying resin (pg. 8 line 9), specifically 250 parts (pg. 28 table 9), from 5 to 150 pars by weight of a plasticizer (pg. 9 lines 16-20), and from 1 to 3 parts by weight (tables 9-12) of one or more auxiliaries such as antioxidants and other stabilizing ingredients (pg. 9 lines 29-32). Further taught is the vinyl content in butadiene is 8 weight percent ant the vinyl content in isoprene is 5 weight percent (pg. 19 table 2) and the polystyrene content is 30 wt% (pg. 19 table 2 "F").

The block copolymers according to the present invention each preferably have a weight average molecular weight ranging from 100,000 to 500,000 (pg. 5 lines 7-8). Not disclosed is the molecular weight of 124,000-145,000. However, the experimental modification of this prior art in order to ascertain optimum operating conditions fails to render applicants' claims patentable in the absence of unexpected results. See *In re Aller*, 105 USPQ 233 and MPEP 2144.05. At the time of the invention a person having ordinary skill in the art would have found it obvious to optimize the molecular weight of the copolymer and would have been motivated to do so for such desirable properties as a cured product with sufficient flexibility and adhesiveness.

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A prima facie case of obviousness may be rebutted, however, where the results of the optimizing variable, which is known to be result-effective, are unexpectedly good. See *In re Boesch and Slaney*, 205 USPQ 215.

Claims 19-21 are rejected under 35 U.S.C. 103(a) as being unpatentable over De Keyzer et al. (WO 02/057386).

Regarding claims 19-21: De Keyzer et al. teaches the block copolymers having a structure represented by A-C-A wherein A represents a polymer block of an aromatic vinyl compound and C is a mixed polymer block of butadiene and isoprene (page 4 lines 9-15) in a weight ratio of 1:1 (3a on table on page 15), which falls within the claimed range. The aromatic vinyl compound is preferably styrene (pg. 4 lines 20-25). The coupling efficiency is from 81-87 % (pg. 19 table 2). Further taught is the vinyl content in butadiene is 8 weight percent ant the vinyl content in isoprene is 5 weight percent (pg. 19 table 2) and the polystyrene content is 30 wt% (pg. 19 table 2 "F").

The block copolymers according to the present invention each preferably have a weight average molecular weight ranging from 100,000 to 500,000 (pg. 5 lines 7-8). Not disclosed is the molecular weight of 124,000-145,000. However, the experimental modification of this prior art in order to ascertain optimum operating conditions fails to render applicants' claims patentable in the absence of unexpected results. See *In re Aller*, 105 USPQ 233 and MPEP 2144.05. At the time of the invention a person having ordinary skill in the art would have found it obvious to optimize the molecular weight of the copolymer and would have been motivated to do so for such desirable properties as a cured product with sufficient flexibility and adhesiveness. A prima facie case of obviousness may be rebutted, however, where the results of the optimizing variable, which is known to be result-effective, are unexpectedly good. See *In re Boesch and Slaney*, 205 USPQ 215.

Response to Arguments

Applicant's arguments filed July 17, 2008 have been fully considered but they are not persuasive.

In response to applicant's argument that unexpected results occur to the viscosity of the polymer within the claimed molecular weight range, this argument is found unpersuasive. Case law holds that whether the unexpected results are the result of unexpectedly improved results or a property not taught by the prior art, the "objective evidence of nonobviousness must be commensurate in scope with the claims which the evidence is offered to support." In other words, the showing of unexpected results must be reviewed to see if the results occur over the entire claimed range (i.e., scope). *In re Clemens*, 622 F.2d 1029, 1036, 206 USPQ 289, 296 (CCPA 1980), MPEP 716.02(d). In this case, the examples provided as evidence of unexpected results did not show the results over the entire claimed range of the ingredients. For example, 250 parts by weight of a tackifying resin was used in the examples whereas up to 300 parts by weight were claimed. Moreover, to establish unexpected results over a claimed range, applicants should compare a sufficient number of tests both inside and outside the claimed range to show the criticality of the claimed range. In re Hill, 284 F.2d 955, 128 USPQ 197 (CCPA 1960).

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Correspondence

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Angela C. Scott whose telephone number is (571) 270-3303. The examiner can normally be reached on Monday through Friday, 8:30am to 5:00pm EST.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mark Eashoo can be reached on (571) 272-1197. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Mark Eashoo, Ph.D./
Supervisory Patent Examiner, Art Unit 1796

/A. C. S./ Examiner, Art Unit 1796